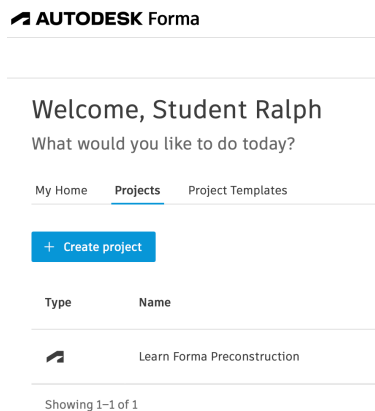


Practice exercise – Answer key

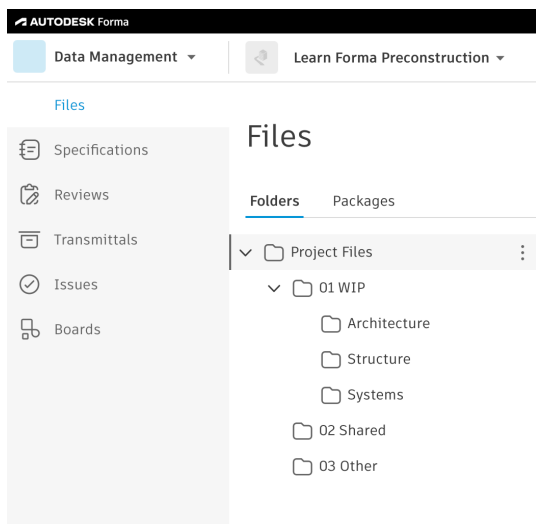
Navigate sheets and models in Forma Data Management

The following steps were completed in the videos for **Module 1: Set up Forma Data Management and Preconstruction**. If you followed along in the videos, you are ready to start the exercise that follows these steps. If you have *not* already performed these steps, make sure to complete them first:

1. You gained access to the Learn Forma Preconstruction Project on Autodesk Forma for Construction by using the invitation sent to you by your instructor.



2. You created a folder structure in Data Management to include 01 WIP, 02 Shared, and 03 Other.



3. You uploaded the files from the dataset folder you downloaded for this course into the corresponding folder on Data Management.
 - a. You uploaded the **Architectural Model.rvt** file from the Version 1 folder in the dataset folder to the Architecture folder on Data Management.
 - b. You uploaded the **Structural Model.rvt** and **Structural Sheets.pdf** files from the Version 1 folder in the dataset folder to the Structure folder on Data Management.
 - c. You uploaded the **Systems Model.rvt** file from the Version 1 folder in the dataset folder to the Architecture folder on Data Management.
 - d. You uploaded the other files on the dataset folder into the 03 Other folder on Data Management.

Once these steps are completed, you will be ready to start the exercise. You will apply the skills learned in this module to navigate and review sheets and models in Data Management. You will use the viewing, markup, measurement, and model navigation tools to explore project information and answer the questions provided.

Learning objectives:

By the end of this exercise, you should be able to:

- Navigate project drawings and 3D models in Forma Data Management.
- Apply markup and measurement tools to review project information.
- Explore model data using sheets, views, and the model browser.
- Create and save viewpoints to support model review and coordination.

Success criteria:

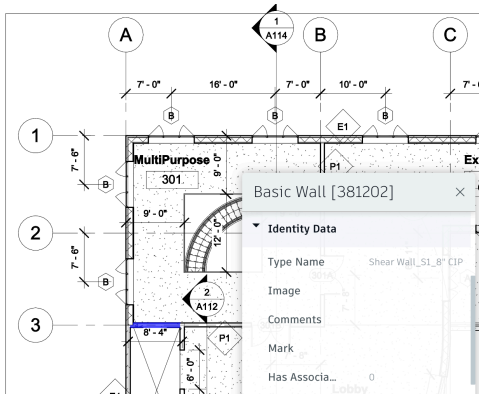
- 2D drawings and 3D models are successfully opened and navigated in Forma Data Management.
- Markup and measurement tools are used to review project information.
- Model information is explored using sheets, views, and the model browser.
- Viewpoints are created and saved for future review.
- Exercise questions are completed and answers are submitted for review.

Answer the following questions based on the 2D sheets from the architectural model.
Make sure you are working with Version 1.

- On sheet A103, what is the type name of the wall that starts at the intersection of grids A and 3 and has a length of 8' 4" (2,540 mm)

Answer Key

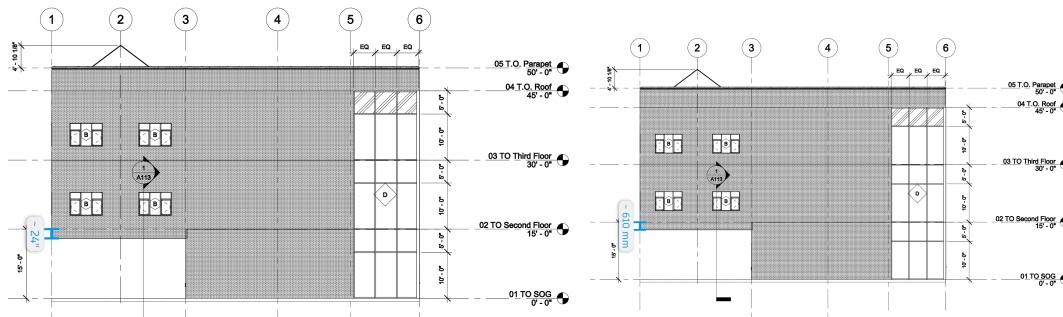
The type name is Shear Wall_S1_8"CIP.



- On Sheet A111, how much does the brick extends below the second floor level on the walls located between grids 1 and 3?

Answer Key

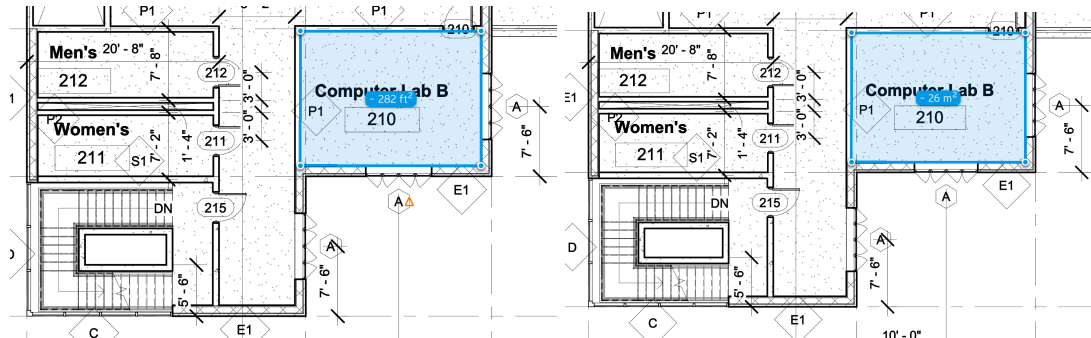
The base extension is 24 inches (810 mm).



3. What is the area of Computer Lab B in square feet (square meters)?

Answer Key

The area is 282 square feet

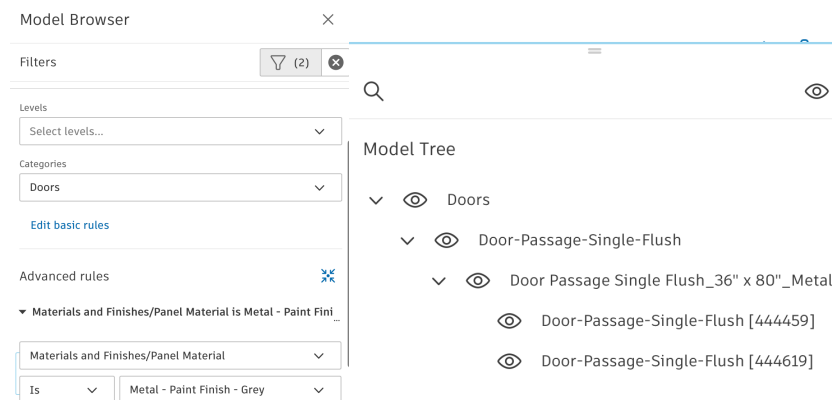


Answer the following questions based on the 3D view from the architectural model.
Make sure you are working with Version 1.

4. Using the model browser, create filter to find all the doors in the model that have a Panel Material property containing the word Metal. How many metal doors are there in the model?

Answer Key

There are two metal doors.



- Use the sectioning tool to cut through the building and select the spiral stairs. What is the actual run width in feet (meters)?

Answer Key

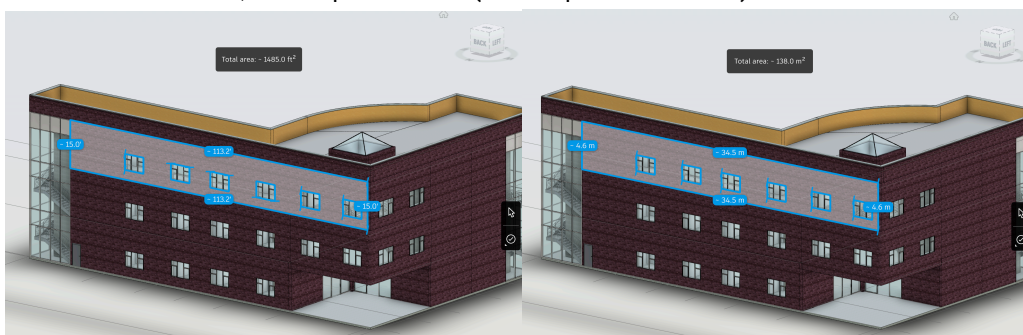
The actual run width is 3'0" (0.91 m).



- Using the surface measure tool, find the area in square feet (square meters) of the brick wall located on the third floor at the back side of the building.

Answer Key

The wall area is 1,485 square feet (138 square meters).

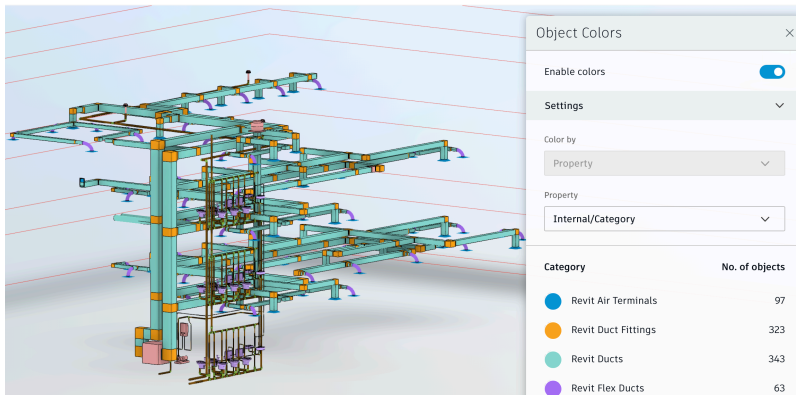


Answer the following questions based on the 3D view from the systems model.

- Turn on color coding using Internal/Category. How many air terminals are there in the model?

Answer Key

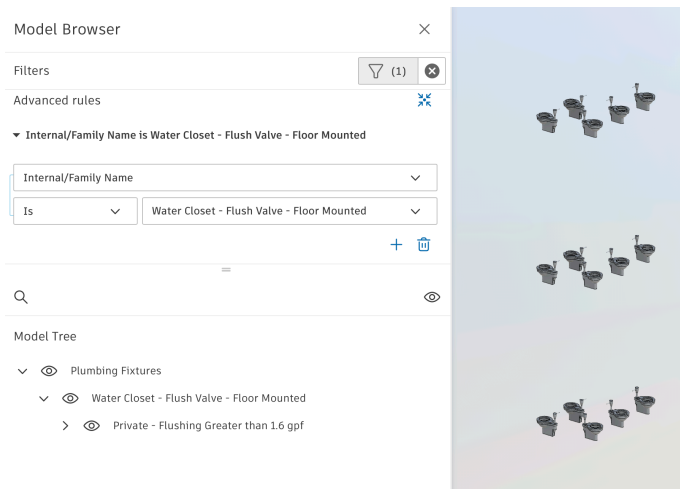
There are 97 air terminals.



- Using the model browser, find the number of water closets in the model.

Answer Key

There are 15 water closets.



9. Using the sectioning and levels tools, select the tankless water heater on the 01 TO SOG level. What is the classification number of this water heater?

Answer Key

There classification number is 23.64.35.11.14.

